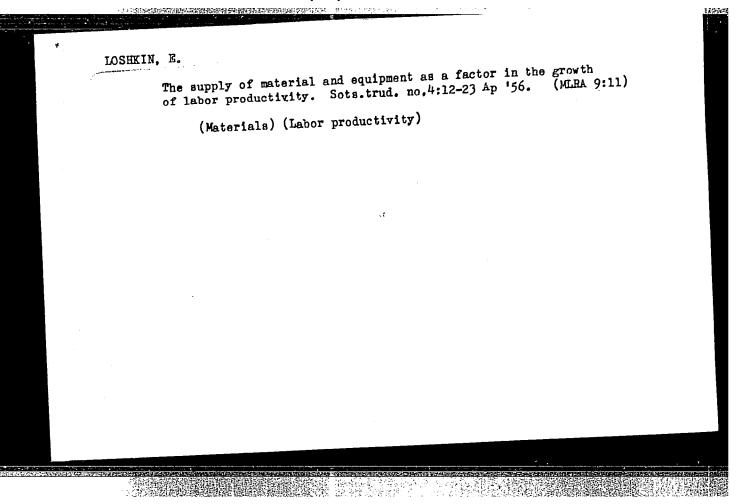
LOSHKIN, A.M., AGEYEV, V.I., SHKUD, M.A.

"Automation of Radio Transmitters," Elektrosvyaz' Jan. 1956

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

LOSHKIN. E.; RUMYANTSEV, A.F., redaktor.

[Circulating capital in Soviet industry and its use] Oborotnye fondy sovetskoi promyshlennosti i ikh ispol'zovanie. Moskva, Vysshaia partiinaia shkola pri Tsk KPSS, 1954. 37 p. [Microfilm] (Russia--Industries--Finance) (MIRA 8:1)



KONYUKHOV, N.; MASHORIN, B., master proimvodstvennogo obucheniya; LOSHKIN, G.

News from schools. Prof.-tekh. obr. 20 no.6:32 Je '63.
(MIRA 16:7)

1. Pomoshchnik direktora po kul'turno-vospitatel'noy rabote, tekhnicheskoye uchilishche No.2, Kuybyshev (for Loshkin).
(No subject headings)

1. Spetsial'noye konstruktorskoye byuro Ukrainskogo nauchno-issledovatel'skogo instituta konservnoy promyshlennosti. (Canning industry--Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

BERSHADSKIY, G.Yu.; LOSHKIN, L.M.

Calculating forces occurring during the rolling of tin cans.

Kons. i ov. prom. 13 no.6:18-24 Je '58. (MIRA 11:5)

1. Spetsial nove konstruktorskove byuro Ukrainskogo nauchnoissledovatel skogo instituta konservnov promyshlennosti. (Containers) (Canning industry)

LOSHKIN, V.A.; VARACKII, L.; KROL, L.

Injection governors for superheated high-pressure steam. Tr. from the Russian. p. 68. EMERCETIKA. (Ministerstvo paliv a energetiky. Hlavni sprava elektraren) Praha. Vol. 5, no. 2, Feb. 195°.

SOURCE: Fast European Accessions List, Vol. 5, no. 9, September 1956

LOSHKIN. V.A., kandidat tekhnicheskikh nauk; KROL', L.B., kandidat tekhnicheskikh nauk.

Recommendations for designing natural circulation boilers for very high steam parameters. Teploenergetika 3 no.11:3-10 N '56.

(MLRA 9:12)

1. Vsesoyusnyy teplotekhnicheskiy institut.

(Boilers)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

LOSHKINA, A.M., KETILADZE, Y.S., KNYAZEVA, I.D., ALEKSYEVA, A.A., SOROKINA, Y.Y.

"Some clinical and laboratory observations on Respiratory Tract Diseases of Virus and Rickettsial Orgin. Prague, Czech. 23-27 May 1961.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

GOL'DSHTEYN, M.I., kand. tekhn. nauk; KAMPANIYETS, G.M., inzh.; PANFILOVA, L.M., inzh.; RABINOVICH, D.M., inzh.; MURAV'YEV, Ye.A., inzh.; LOSHKINA, N.A., inzh.

Effect of vanadium and heat treatment on th properties of St. 3kp rimmed steel. Stal' 24 no.10:925-927 0 '64. (MIRA 17:12)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov

i Nizhne-Tagil'skiy metallurgicheskiy kombinat.

SMIRNOV, L.A.; TIMONINA, V.M.; KORNEYEV, N.D.; LOSHKINÁ, N.A.

Investigating the quality and mechanical properties of St. 3ps plate steel. Stal' 25 no.6:511-516 Je '65.

(MIRA 18:6)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallow i Nizhne-Tagil'skiy metallurgicheskiy kombinat.

53973-65 EWT(m)/EWP(w)/EWA(d)/T/	EMP(t)/EMP(z)/EMP(b) JD UR/0133/65/000/006/0553/0557	22
CCLESION NR: AP5014866	621.43.669.15.194	"B
range. Ways of improving the mechan	rich, D. M.; Vinokurov, I. Ya.; Loshkina,	
steel sheets and sections	1	
SOURCE: Stal', no. 6, 1965, 553-55	7 ·	:
TOPIC TAGS: foughening, low carbon steel section, steel beam, quenched memoring tank, impact toughness	steel, low alloy steel, sheet steel, steel, toughened steel, spray quenching	1
consider other techniques. The autifield at the Mizhaiy Tagil Metallur of metal while it still is in heate	low-carbon and low-alloy metal by means i capital investments, it is of interest thors describe the work being done in this rgical Combine with respect to the tougher at a take immediately after its rolling or a were either immersed in a quenching wat oller table or passed through an experimental	o ning e-
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apray installation. For stabilization of the properties at the required level and enhancement of plasticity after the toughening by quenching in the tank, it is expedient to perform additional tempering by means of the available heattreatment equipment. In the spray installation the required level of properties can be attained by adjusting the pressure and delivery rate of the cooling water. The effect of temperature was more precisely determined in laboratory experiments with 3sp steel: cooling in water from temperatures corresponding to the monophase (y) and two-phase (y + a) regions exerts a marked and n arly identical toughening effect and produces an impact toughness (at +20°C) at the level of 8-10 kg-m/cm2. In this way, the strength qualities of low-carbon metal could be increased 15-25%, and those of low-alloy metal, 30-50%, without detriment to plastic properties and impact toughness in the presence of negative temperatures and after mechanical aging. Toughening beyond these limits usually deteriorates the plastic properties of the metal. The uniformity of cooling over the area of the metal is of special importance. Orig. art. has: 4 figures, 5 tables.

ASSOCIATION: Nizhne-Tagil'skiy metallurgicheskiy kombinat (Mizhniy Tagil Metallurgical Combine)

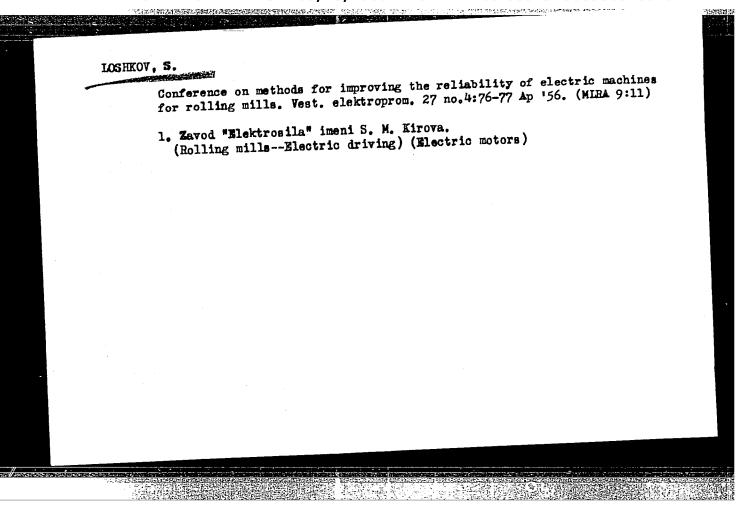
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VISLOGUZOV, G.I., inzh.; RABINOVICH, D.M., inzh.; ORLOVA, N.I., inzh.; SHM NIN, I.A., inzh.; KOMPANIYETS, G.M., inzh.; KONDRATIYEV, S.N., inzh.; LOSHKINA, N.A., inzh.

Nonmetallic inclusions in rails in various methods of deoxidizing steel. Stal' 25 no.6:557-559 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.



LOSHKOVOY, I., kapitan, spetsialist logo klassa; LITVYAK, P., kapitan; LOGVINENKO, A., starshiy serzhant, komandig rascheta puskovykh ustanovok

We are missilemen. Voen.-znan. 41 no.12:8-9 D '65. (MIRA 18:12)

LUNDINA, M.G., kand.tekhn.nauk; Prinimali uchastiye: LOSHLYAK, L.L., mladshiy nauchnyy sotrudnik; YERMOLAYEVA, A.I., mladskiy nauchnyy sotrudnik; SAFRONOVA, Z.A., mladskiy nauchnyy sotrudnik; RAUKHMAN, B.R., insh.; METLITSKAYA, S.S.; SHISHKONOVA, L.I.; MURAV'YEVA, L.V.

Investigating the processing of clay in making bricks. Trudy NII Stroikeramiki no. 14:3-35 '59. (MIRA 14:1)

1. Obshchesoyuznyy nauchno-issledovatel'skiy institut stroitel'noy keramiki (for Koshlyak, Yermolayeva, Safronova). 2. Nachal'nik laboratorii Vorontsovskogo kirpichnogo zavoda (for Shishkanova).
3. Nachal'nik laboratorii Nizhne-Kotel'skogo kirpichnogo zavoda (for Shishkanova). 4. Nachal'nik laboratorii Moskovskogo eksperimental'nogo zavoda (for Murav'yeva).

(Clay)

s/120/60/000/006/011/045

E032/E314 5.5800 (1043, 1273, 1228)

Goman'kov, V.I., Kasatkin, S.N., Kiselev, S.V.,

Loshmanov, A.A. and Ozerov, R.P.

A Neutron-diffraction Apparatus Working in Conjunction with the MPT (IRT) Reactor TITLE:

Pribory i tekhnika æksperimenta, 1960, No. 6, PERIODICAL: pp. 45 - 48

TEXT: A description is given of a neutron diffractometer designed for investigating poly- and monocrystals. A collimated neutron beam of 8 x 10 neutrons/cm sec with a horizontal divergence of 7' was employed. The neutrons were monochromatised by a reflection from the (200) plane of a NaCl monocrystal having an area of $12 \times 50 \text{ mm}^2$, or from the (111) The reflection

lead monocrystal having an area of 80 x 200 mm², curves for the two crystals are shown in Figs. 1 and 2. A photograph of the apparatus as a whole is shown in Fig. 3. The apparatus can be used to measure directly the angular and \$600 . positions of the diffraction maxima

By reflecting the neutron beam from NaCl crystals, a

Card 1/3

AUTHORS:

S/120/60/000/006/011/045 E032/E314

A Neutron-diffraction Apparatus Working in Conjunction with the IRT Reactor

monochromatic neutron beam with $\lambda=0.97$ Å was obtained. The wavelength spread was about 0.01 Å and the half-width of the monochromatic peak was 201. The flux of monochromatic neutrons was ~ 105 neutrons/cm2sec. The crystal-monochromator was set up on a table of a goniometer so that the position of the crystal could be adjusted with respect to the incident beam. The monochromatised beam was then passed through a second cadmium collimator and struck the specimen under investigation which was fixed on the table of the neutron diffractometer. The diffractometer (Fig. 3) is in the form of an H section beam, 180 cm long, which can be rotated about the vertical axis through angles between 0 and 180° . The angular position of the rotating beam can be estimated to within 3 min. The beam is rotated by a DC motor and the angular elocity can be varied between 3 and 216 deg/hr. The thermal neutron detector was a high-efficiency end-window proportional counter, (25 mm dia) and having a working length of 130 mm. The counter was described by Bykov and Levdik in Ref. 8, and is filled with Card 2/3

5/120/60/000/006/011/045 E032/E314

A Neutron-diffraction Apparatus Working in Conjunction with the IRT Reactor

83% B10 enriched BF, gas at atmospheric pressure. The counter is screened with a 100 mm thick layer of paraffin with B4C.

Fig. 5 shows the diffraction pattern obtained in NaCl and Fig. 6 shows the diffraction pattern of a polycrystalline a-iron specimen. In the former case, the monochromatic crystal was NaCl and in the latter case Pb. The instrument was designed at the Institute of Physical Chemisty of the AS USSR. There are 6 figures and 8 references: 4 Soviet and 4 English.

ASSOCIATIONS:

Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry of the

AS USSR)

APPROVED FOR RELEASE: 08/23/2000

Nauchno-issledovatel'skiy fiziko-khimicheskiy institut (Scientific Research Physico-chemical

Institute)

SUBMITTED:

November 28, 1959

Card 3/3

CIA-RDP86-00513R000930610010-1"

OZEROV, R.P.; KISELEV, S.V.; KARPOVICH, I.R.; GOMAN'KOV, V.I.; LOSHMANOV,

Neutron diffractometer based on unit GUR-3 and equipped with remote control. Kristallografiia 5 no.2:317-319 Mr-Ap '60. (MIRA 13:9)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. (Neutrons-Diffraction)

GOMAN'KOV, V.I.; LOSHMANOV, A.A.

Antiferromagnetism in the Cr-Mn alloy. Kristallografiia 6 no.5:783-784 S-0 '61. (MIRA 14:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

(Chromium-manganese alloys---Magnetic properties)

1530 1496 1482

5/126/61/012/006/017/023

E073/E535

AUTHORS:

18.1142

Doroshenko, A.V., Klyushin, V.V., Loshmanov, A.A.

and Goman'kov, V.I.

TITLE:

Neutron diffraction investigations of MnTe

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.6, 1961,

911-912

TEXT: MnTe was produced by vacuum sintering at 800°C of a mixture of 99.8% purity Mn and 99.99% purity Te, the structure and the composition of which were checked by X-ray analysis. Then, after additional crushing, the powder was pressed into a thinwalled aluminium cylinder 27 mm high with an internal diameter of 9.6 mm. The table herewith gives the calculated and experimentally determined values of the Bragg angles and of the corresponding interplanar distances. The magnetic reflections from (001) under the angle of 4°40° corresponds to the constant c of the crystal lattice and, consequently, along the c-axis the parameter of the elementary cell coincides with the parameter of the crystallo-chemical lattice. Furthermore, the appearance of this reflection indicates that the magnetic moments of the Mn

Neutron diffraction investigations ... S/126/61/012/006/017/023 E073/E535

atoms are located in the basal planes or form a small angle with A simplified model of the magnetic structure these planes, corresponding to the magnetic reflection from (001) will be the structure formed by ferromagnetic layers in the basal planes with magnetic moments that are perpendicular to the c-axis and antiparallel as regards the magnetic moments in the adjacent basal planes. The presence of a magnetic reflection from (101), together with a reflection from (001), is natural for such a model. However, in this case there should be no reflection from (002). To get more accurate information on the magnetic structure of MnTe, the investigations are to be continued. Acknowledgments are expressed to A. K. Kikoin, B. G. Lyashchenko, D. F. Litvin and There are 1 figure, 1 table and N. P. Grazhdankina. 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The Englishlanguage references read as follows: Ref. 3: Kelley K.K. J. Amer. Chem. Soc., 1939, 61, 1, 203; Ref. 4; Greenwald S. Acta Cryst., 1953, 6,5,396.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals AS USSR)

SUBMITTED S Card 2/7

June 3, 1961

GOMAN KOV, V.I.; LITVIN, D.F.; LOSHMANOV, A.A.; LYASHCHENKO, B.G.; PUZEY, I.M.

Neutron diffraction determination of the temperature dependence of the arrangement of atoms in a FeCo alloy. Kristallografiia 7 no.5:782-790 S-0 *62. (MIRA 15:12)

l. Institut pretsizionnykh splavov TSentral'nogo nauchno-issledovatel'-skogo instituta chernoy metallurgii imeni Bardina.

(Iron-cobalt alloy) (Neutron diffraction crystallography)

GOMAN'KOV, V.I.; LITVIN, D.F.; LOSHMANOV, A.A.; LYASHCHENKO, B.G.

On the antiferromagnetic structure of chromium. Kristallografiia 7. no.5:790-792 S-0 62. (MIRA 15:12)

1. Institut metallofiziki TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii imeni Bardina.

(Ferromagnetism) (Neutron diffraction crystallography)

(Chromium)

39751 :

24.6300

S/126/62/014/001/003/018 E032/E414

AUTHORS:

Goman'kov, V.I., Litvin, D.F., Loshmanov, A.A.,

Lyashchenko, B.G.

TITLE:

Neutron diffraction studies of Ni-Cr alloys

PERIODICAL: Fizika metallov i metallovedeniye, v.14, no.1, 1962,

26-29

TEXT: The authors report the design of a neutron diffractometer which can be used both with single crystals and polycrystalline materials. The neutron beam is collimated by a multi-slit collimator and has a divergence of about 24' at an intensity of 10° to 10° neutron/cm² sec. The beam is made monochromatic by reflection from the (111) plane of a lead single-crystal. The monochromatic beam is extracted through a special extraction channel in the boron-paraffin shield. The trolley carrying the specimen can be traversed across the beam so that wavelengths between 1.5 Å and "white" radiation can be covered. BF3 filled counters enriched with B¹0 are used as detectors. The spectrometer incorporates various attachments such as a crystal calibrator, goniometer for large specimens, electromagnet, cryostat, high-Card 1/2

Neutron diffraction ...

S/126/62/014/001/003/018 E032/E414

temperature chamber, high-pressure multiplicator, etc. In the present work the diffractometer was used to determine the magnetic moments of Ni and Cr in binary alloys containing 5.98 and 8.26 at.% Cr. The experiments were carried out at 77°K. The diffusely scattered background due to the specimen under investigation was determined with and without the magnetic field so as to separate out the magnetic component of the diffuse scattering. preliminary conclusion is that the addition of Cr to the alloys gives rise to a reduction in the magnetic moment of Ni atoms. It is probable that the Cr moments are anti-parallel to the magnetic moments of the Ni atoms. It is stated that work on the Ni-Cr system is being continued. Academician G.V.Kurdyumov is thanked for his assistance. There are 3 figures and 1 table.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChM

(Institute of Science of Metals and Physics of Metals

TsNIIChM)

SUBMITTED:

November 28, 1961

Card 2/2

s/126/62/014/002/015/018 E073/E192

AUTHORS:

Goman'kov, V.I., Litvin, D.F., Loshmanov, A.A., and

Lyashchenko, B.G.

TITLE:

Ordering in Ni-Cr alloys

PERIODICAL: Fizika metallov i metallovedeniye, v.14, no.2, 1962, 305-307

Ni-Cr alloys were investigated in the region of a TEXT: Ni2Cr super-lattice formation, using neutron diffraction and polycrystalline (20 to 35 at.% Cr) and single crystal (with nearly stoichiometric composition, 32.9 at.% Cr) specimens. The crystal was in the form of a sphere 8 mm in diameter. All the specimens were subjected to an equal heat treatment so as to obtain maximum ordering: quenching from 1200 °C in water and annealing at 500 °C for 1036 hours. No super-lattice lines were detected in neutron diffraction patterns of polycrystalline specimens. The [110] zone of the single crystal showed reflections which are characteristic for the super-lattice Ni2Cr. The dimensions of the antiphase domains were evaluated as being at least 1200 Å. Neutron Card 1/2

Ordering in Ni-Cr alloys

5/126/62/014/002/015/018 E073/E192

diffraction studies of the temperature dependence of the degree of distant ordering S can show whether there exists a real two-phase state with a degree of distant order in the new phase S = 1 or whether the single phase solid solution is retained with S = 0.8. The absence of any super-lattice reflections in the neutron diffraction photographs is explained by the authors by the low sensitivity of the powder method used in their experiments. There are 2 figures.

ASSOCIATION: Institut metallovedeniya i fiziki metallov

TsNIIChM

(Institute of the Science of Metals and the Physics

of Metals, TsNIIChM)

SUBMITTED:

March 3, 1962

Card 2/2

CIA-RDP86-00513R000930610010-1" APPROVED FOR RELEASE: 08/23/2000

LOSHMANOV, A. A., PURZEY, I. M., and GOMANKOV, V. I.,

"Neutron Diffraction Studies of Atomic Magnetic Moments of Fe, Nl, Co in Alloys."

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963.

GOMAN' KOV, V.I.; LITVIN, D.F.; LOSHMANOV, A.A.; LYASHCHENKO, B.G.; PUZEY, I.M.

Neutron diffraction examination for determining the temperature dependance of the atomic order in the FeCo alloy. Ukr. fiz. zhur. 8 no.2:268-270 F 163. (MIRA 16:2)

1. TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii i Institut metallovedeniya i fiziki metallov, Moskva.

(Neutron diffraction crystallography) (Iron-cobalt alloys)

L 20065-65 EPA(s)-2/EWT(m)/EPA(bb)-2/EWP(b)/EWP(t) Pt-10/Pad IJP(c)/SSD/AFWL JD/HW

ACCESSION NR: AP4044142

S/0126/64/018/002/0178/0181

AUTHOR: Loshmanov, A. A.

B

TITLE: Atomic magnetic moments in Ni-Mn alloys

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SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 2, 1964, 178-181

TOPIC TAGS: magnetic scattering, thermal neutron, nickel manganese alloy

ABSTRACT: Using the method of incoherent magnetic scattering of thermal neutrons (λ = 1.07 A), the author determined atomic moments in disordered Ni-Mn alloys containing 5.9 to 22.1 atomic % Mn at a temperature of 77K. Specimens were prepared in an induction furnace with Ar and homogenized for 1 hour at 1100C. Disordering was achieved by water quenching from 800C. In alloys containing 6 atm. % Mn atomic moments of Ni and Mn alloys decreased to 0.3 μ . The dependence of concentration of atomic moments is explained on the basis of available theories. The contribution of Academician G. V. Kurdyumov, V. I. Goman'kov and A. V. Doroshenko is acknowledged. Orig. art. has: 2 fig-

Card 1/3

L 20065-65 ACCESSION NR: AP4044142

ures and 1 table

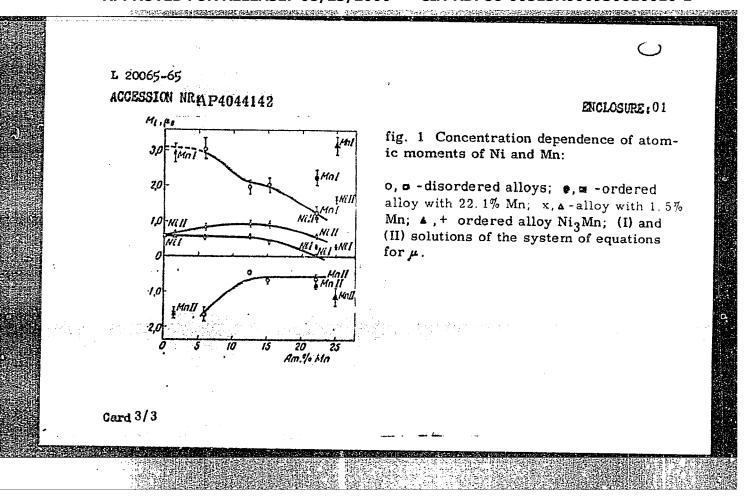
ASSOCIATION TsniiChermet im. T. P. Bardina

SUBMITTED: 21Oct63

ENCL: 01

SUB CODE: MM, NP NO REF SOV: 001 OTHER: 016

Card 2/3



ACCESSION NR: AP4023387

S/0048/64/028/003/0440/0443

AUTHOR: Puzey, I.M.; Goman'kov, V.I.; Loshmanov, A.A.

TITLE: Neutron diffraction determination of atomic magnetic moments in iron-nickel alloys containing Mo, Si and Cu /Report, Symposium on Ferromagnetism and Ferroelectricity hold in Leningrad 30 May to 5 June 1963

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.3, 1964, 440-443

TOPIC TAGS: neutron diffraction, atomic magnetic moments, permalloy, impure permalloy, Mo permalloy, Si permalloy, Cu permalloy

ABSTRACT: The magnetic moments of Fe and Ni in 8 alloys of the permalloy type containing up to several percent Mo, Si or Cu were determined by the diffuse neutron scattering method of C.G. Shull and M.K. Wilkinson (Phys. Rev., 97, 305, 1955). The measurements were undertaken because of the interesting fact that both Fe and Ni have larger magnetic moments in their alloys than in the pure metals, and because there is evidence (I.M. Puzey, Fizika metallov i metallovedeniya, 12, No.3, 453, 1961) that apparatus has been described elsewhere (V.I. Goman'kov, D.F. Litvin, A.A. Loshmanov

Card 1/3/7

ACCESSION NR: AP4023387

and B.G.Lyashchenko, Fizika metallov i metallovedeniy,14,26,1962). The alloys were prepared from electrolytic metals, were forged into bars, and quenched from 700°C in water to obviate ordering. Correction was made for the effect of multiple magnetic Bragg scattering. This correction was evaluated by extrapolating measurements on four samples of the same composition but different size to zero sample size. The measurements were performed at 77°C. The results are shown in the table below, which gives the decrease in the magnetic moments of Fe and Ni, in Bohr magnetons per percent admixture. It can be seen that Si affects Fe more strongly than does Mo

	Fe	N1
Mo	.01	N1 .07
Si	.03	.03
Cu	.00	.03

and Mo affects Ni more strongly than does Si. Measurements with colder neutrons will be required to elucidate the mechanism of this effect. "In conclusion, the authors thank B.G. Lyashchenko, D.F. Litvin and A.V. Doroshenko for assistance in the work." Orig. art. has: 2 figures and 2 tables.

Card 2 /3 7

ACCESSION NR: AP4023388

\$/0048/64/028/003/0444/0445

AUTHOR: Goman'kov, V.I.; Loshmanov, A.A.

TITLE: Atomic magnetic moments in iron-cobalt alloys Report, Symposium on Ferro-magnetism and Ferroelectricity held in Leningrad 30 May to 5 June 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.3, 1964, 444-445

TOPIC TAGS: magnetic moment, atomic magnetic moment, alloy magnetic moment, iron-cobalt alloys, neutron diffraction

ABSTRACT: The magnetic moments of iron and cobalt in five iron-cobalt alloys containing from 33 to 60 atomic percent cobalt were determined by the unpolarized neutron scattering method described by C.G.Shull and M.K.Wilkinson (Phys.Rev.,97,304, 1955). These alloys were chosen for investigation because of the large values of their saturation induction. The samples were polycrystalline cylinders 9 mm in diameter and 50 mm long. They were annealed at 575°C and cooled slowly in order to achieve a state of maximum long range order. The neutron scattering was observed at room temperature with the apparatus described by V.I.Goman'kov, D.F.Litvin, A.A. Loshmanov and V.G.Lyashchenko (Fizika metallov i metallovedeniy,14,26,1962). No

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ACCESSION NR: AP4023388

corrections were made for multiple and inelastic magnetic scattering. The magnetic moments of iron and cobalt in the alloys were calculated from the intensities of the (100) superstructure reflection with and without an applied magnetic field. The values of the total magnetic moment per atom and the iron form factor, required for this calculation, were taken from the monographs of R.Bozorth and J.Bacon, respectively. The magnetic moment of cobalt was found to be 1.9 Bohr magnetons in all the samples. This agrees with the magnetic moment obtained by extrapolating the Slater-Pauling curve to the value for pure body-centered cobalt. The magnetic moment of iron increased from 2.77 Bohr magnetons in the alloy containing 33% cobalt to 2.94 in the alloy containing 60% cobalt. The iron magnetic moment increased most rapidly with the cobalt concentration in the range of low concentrations and it appears to reach a maximum at a concentration of about 50 or 60 atomic percent cobalt. "The authors thank B.G.Lyashchenko, D.F.Litvin, I.M.Puzey and A.V.Doroshenko for assistance in the work and for a valuable discussion." Orig.art.has: 1 figure and 1tible.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 001

OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000930610010-1"

LOSHMANOV, A.A.

Antiferromagnetism of chromium - manganese alloys. Kristallografiia 9 no.3:377-380 My-Je 164. (MIRA 17:6)

l. Institut metallovenediya i fiziki metallov TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii imeni I.P. Bardina.

GOMAN'KOV, V.I.; PUZEY, I.M.; LOSHMANOV, A.A.

Study of the superstructure of Ni₃Fe. Kristallografiia 10 no.3:
416-418 My-Je '65.

(MIRA 18:7)

416-418 My-Je '65. (MIRA 18:7)

1. TSentral'nyy nauchno-isaledovatel'skiy institut charnor

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina.

LAPSHIN, A.P.; LOSHMANOV, I.A.

Changing the method of washing pipes of waste-heat boilers of open-hearth furnaces. Sbor. rats. predl. vnedr. v proizv. no.2:45-46 '61. (MIRA 14:7) (Boilers-Maintenance and repair)

UCHITEL', M., inzh.; LOSHMANOVA, M., inzh.; KAPUSENKO, V., insh.;

RABININA, T.; GATSKO, V. (g.Kolomna, Moskovskoy oblasti).

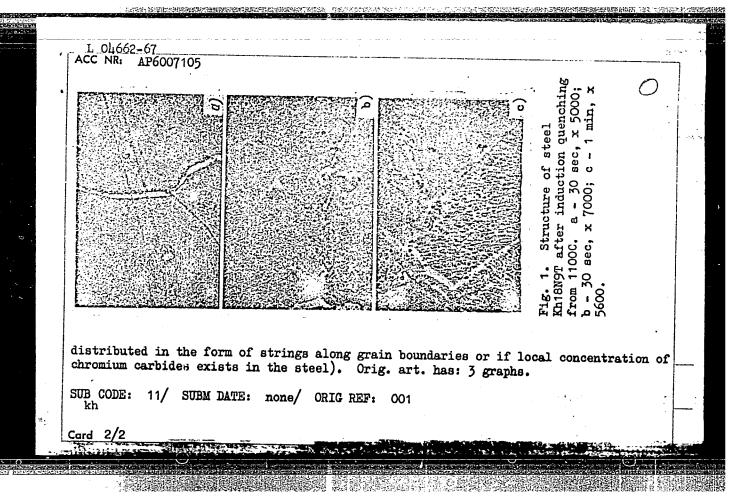
Customers pass their judgement. Prom.koop. 14 no.8:26 Ag '69.

(MIRA 13:8)

1. Otdel bytovogo obslushivaniya oblpromsoveta, g.Ghelyabinsk
(for Uchitel', Loshmanova, Kapusenko). 2. Starshiy inshener otdela
obsluzhivaniya Litpromsoveta, g.Vil'nyus (for Babinina).

(Service industries)

L OL662-67 EWT(m)/T/EWP(t)/ETI IJF(c) JD/WB	
AP6007105 SOURCE CODE: UR/0129/66/000/002/0021/	0025
AUTHORS: Pogodina-Alekseyeva, K. M.; Loshnevskaya, A. A.	79
ORG: All-Union Polytechnic Correspondence Institute (Vsesoyuznyy zaochnyy politekhnicheskiy institut)	3
TITLE: Influence of induction heating on the fine structure of austenitic stainles	88
SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 2, 1966, 21-25	
TOPIC TAGS: austenite steel, alloy steel, intergranular corrosion, nickel steel, austenitic steel / Kh18N9T austenitic steel	
ABSTRACT: The effect of several induction heating parameters (temperature, rate of heating, and duration of annealing) on the fine structure of austenitic steel Kh18N was investigated. The microstructure was studied by electromicroscopy. The induct The experimental results are presented graphically (see Fig. 1). It was found that increase of resistance to intercrystalline corrosion. It is congluded that the and the nature of the distribution of chromium carbides and to an tendency of steel Kh18N9T to develop intercrystalline corrosion depends on the amount towards intercrystalline corrosion is increased in the latter (the tendency	ion
towards intercrystalline corrosion is increased if the chromium carbides are	
UDC: 620.196:621.785.545.4:669.14.018	3.84



LOSIAK, S.

"Mechanization of the pressing industry." p. 59. (ODZIEZ, Vol. 5, no. 3, Mar. 1953, Lodz, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

BEBEN, Artur, mgr.inz.; LOSIAK, Stanislaw, mgr.inz. (Krakow)

Problems of labor mechanization in small quarries. Cement wapno gips
17 no.4:106-108 Ap '62

BEBEN, Artur, mgr inz.; ENGEL Zbigniov, dr inz.; LOSIAK, Stanislaw, mag.iur.

Possibilities of shot-hole drilling in hardened iron slag.

Hutnik P 30 no. 7/8:229-235 Jl/Ag'63.

1. Akademia Gorniczo-Hutnicza, Krakow.

LOSIAK, Z.

Lighting in a switchboard.

P. 57 (WIADOMOSCI ELEKTROTECHNICZNE) (Warsaw, Poland) Vol. 17, no. 3. Mar 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

LOSIECZKA, Kazimierz

SURNAME, Given Names

Country: Poland

Academic Degrees: [not given]

Affiliation: [not given]

Source: Lublin, Medveyna Weterynaryina, Vol XVII, No 10, October 1961, pp 589-590

Data: "Control of Tuberculosis in Cattle at a State Agricultural Farm in the Zlotoryja Powiat."

cro 981643

Urganizing the complete processing of corn. Sakh. prom. 33
no.8:58-61 Ag '59. (MIRA 12:11)

1.Giprospirtvino.
(Cornstarch) (Starch industry--Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

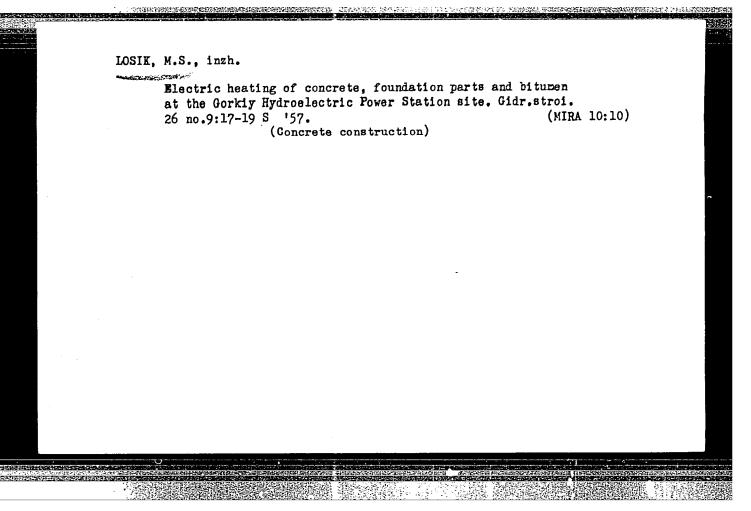
TERNOVSKIY, N. S.; LOSIK, L. I.

Development and manufacture of the new type of technological equipment for the distilling industries. Spirt. prom. 29 no.3: 22-24 63. (MIRA 16:4)

1. Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu pri Gosplane SSSR (for Ternovskiy). 2. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy spirtovoy i vinodel cheskoy promyshlennosti (for Losik).

(Distilling industries-Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"



1. Predstavleno akademikom 1.G.Petrovskim. (Spaces, Generalized)	A certain class 1302 0 '60.	of Kawaguchi	врасев. Во	kl. An SSSR	134 no.6:1299- (MIRA 13:10)	
	1. Predstavleno	akademikom I. (Spaces	.G.Petrovski , Generalize	m. d)		
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				·		

27309 \$/199/61/002/004/005/007 B112/B108

16.4900

AUTHOR:

Losik, M. V.

TITLE:

Geometrical interpretation of certain conditions for an ordinary variational problem with higher derivatives

PERIODICAL:

Sibirskiy matematicheskiy zhurnal, v. 2, no. 4, 1961,

556-567

TEXT: The author studies the variational problem which is defined by the invariant integral

 $\int_{t_1}^{t_2} L(\int_{t_1}^{\alpha} \frac{d^i \int_{t_1}^{\alpha}}{dt^i}) dt$

(i = 1,2...,v, α = 1,2,...,n). The author interprets this integral - according to A. Kawaguchi (J. Fac. Sci. Hokkaido Imp. Univ., 9 (1940) 1 - 152; 10 (1941)) - as the length of curve (metric) in a space X_n which is referred to the coordinates $x^{(i)\alpha} = d^i \int_0^\alpha dt^i$. The group D_(v,n) of the transformations

Card 1/3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000930610010-1"

27309 S/199/61/002/004/005/007 Geometrical interpretation of certain ... B112/B108

$$x^{(i)\alpha'} = i! \sum_{k=1}^{i} \frac{1}{k!} f_{\alpha_1}^{\alpha'} \dots \alpha_k \sum_{(i_1 + \dots + i_k = v)} \frac{x^{(i_1)\alpha_1} \dots x^{(i_k)\alpha_k}}{i_1! \dots i_k!}$$

with the parameters f which are symmetrical in their subscripts defines a tangential space T_{vn} in each point of X_n . The group $P_{(v,n)}$ of the

transformations

$$\bar{x}^{(i)\alpha} = i! \sum_{k=1}^{i} \frac{1}{k!} x^{(k)\alpha} \qquad \sum_{(i_1 + \dots + i_k = 1)} \frac{p_{i_1} \dots p_{i_k}}{i_1! \dots i_k!}$$

defines a projective space $T_{vn}/P_{(v,n)}$. The author calls the points of the space T_{vn} vectors of the order v. The points of the space $T_{vn}/P_{(v,n)}$ are called directions of the order v. On the basis of these definitions the author can give a geometrical interpretation of a number of conditions in calculus of variations. The most important interpretation refers to transversality: if a given curve is a curve of extreme length, it is an extremal on a family of surfaces. The tangent spaces at its ends are

Card 2/3

Geometrical interpretation of certain ...

27309 S/199/61/002/004/005/007 B112/**B106**

transverse vector spaces of the order 2v-1, whose vectors are tangential to the ends of the curves. The present paper was made under the supervision of V. V. Vagner. There are 7 references: 3 Soviet and 4 non-Soviet.

SUBMITTED: March 11, 1960

X

Card 3/3

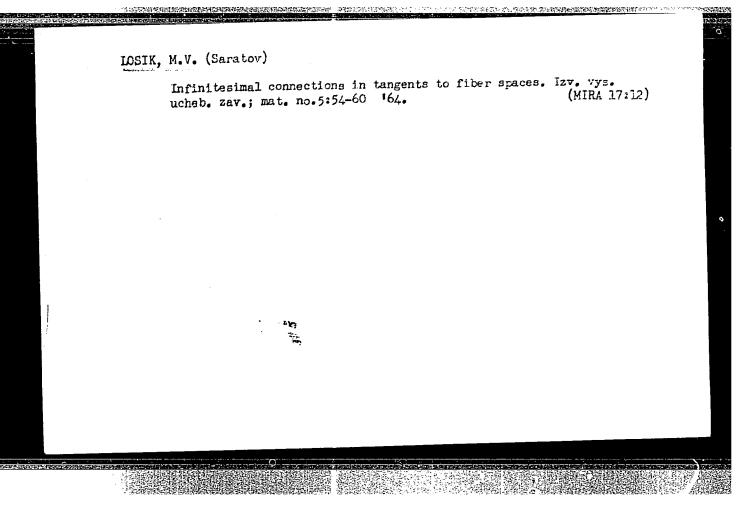
LOSIK, M.V.

Kawaguchi spaces related to Klein spaces. Trudy Stem po vekt.
i tenz.anal. no.12:213-237 '63. (MIRA 16:6)
(Spaces, Generalized)

LOSIK, M.V.

Klein's spaces as Kavaguchi spaces. Dokl. AN SSSR 139. no.6: 1299-1301 Ag '61. (MIRA 14:8)

1. Predstavleno akademikom I.G. Petrovskim. (Hyperspace)



PENZOV, Yu'Ye.; RZHEKHINA, N.F.; COKHMAN, A.V.; KABAJOV, N.I.; KONOPLEVA, Yu.K.; LOSIK, M.V.; SPIVAK, M.A.; ZARETSKAYA, N.V., red.

[Problems in vector algebra] Sbornik zadach po vektornoi algebre. Saratov, Izd-vo Saratovskogo univ., 1964. 59 p.

(MIRA 18:4)

L 23878_66 ENT(m)/T/ETC(m)_6 WW/DJ

ACC NR: AP6009928 SOURCE CODE: UR/0413/66/000/004/0121/0122

AUTHOR: Losik, V. I.; Rizhamadze, G. V.; Nevelich, V. V.; Vasil'tsov, E. A.; '39 Voronin, H. I.

ORG: none

TITLE: A combination ball-hydrostatic thrust bearing. Class 47, No. 179135
[announced by Leningrad Branch, All-Union Scientific Research and Design Institute of Chemical Machine Building (Leningradskiy fillal Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskogo mashinostroyeniya)]

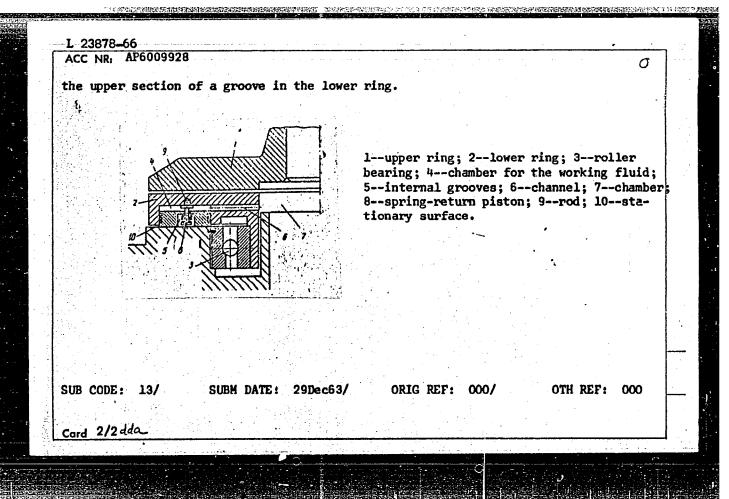
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 121-122

TOPIC TAGS: antifriction bearing, ball bearing

ABSTRACT: This Author's Certificate introduces: 1. A combination ball-hydrostatic thrust bearing with upper and lower rings. The lower ring has a chamber for the working fluid and is supported by a roller bearing. In order to improve working conditions and relieve the bearing during operation, the lower ring has internal grooves which form additional chambers connected by channels with the chamber for the working fluid. Inside these grooves are elastic elements fastened to the ring. 2. A modification of this bearing in which the elastic element is made in the form of a spring-return piston. Sliding freely in this piston is a rod which is rigidly fastened in

Card 1/2

UDC: 621.822.2-219



ACC NR: AP7000364

SOURCE CODE: UR/0413/66/000/022/0136/0136

INVENTOR: Vasil'tsov, E. A.; Voronin, N. I.; Losik, V. I.; Nevelich, V. V.

ORG: None

TITLE: A hermetically sealed electric drive. Class 47, No. 188799 [announced by the Leningrad affiliate of the All-Union Scientific Research and Design Institute of Chemical Machine Building (Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 136

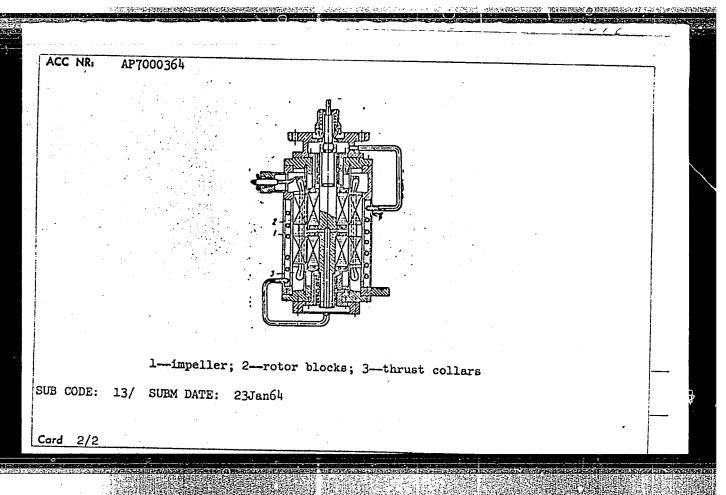
TOPIC TAGS: centrifugal pump, electric equipment, drive train, HERMETIC JEAL

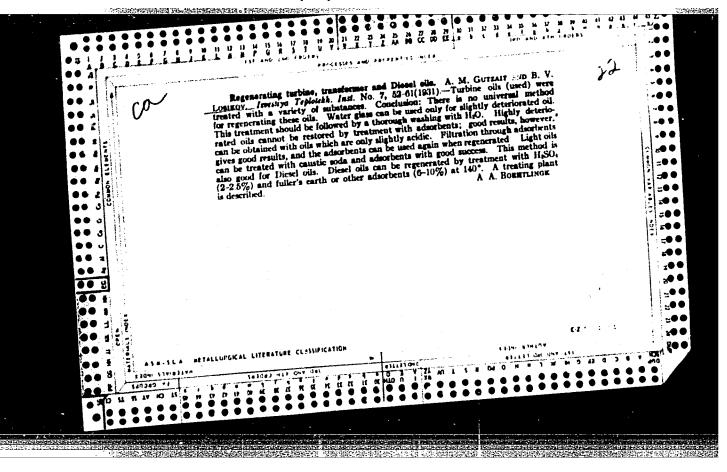
ABSTRACT: This Author's Certificate introduces a hermetically sealed electric drive containing a housing with bearings, a stator with shielded casing, a rotor and a pump on the rotor shaft for self-contained lubrication of the journal bearings. To reduce hydraulic losses, improve the resistance of the electric drive to vibrations and eliminate the harmful effect of axial forces, the impeller of the centrifugal pump is mounted without play inside the rotor between its blocks. The end surfaces of the rotor are equipped on both sides with thrust collars supported by the bearings.

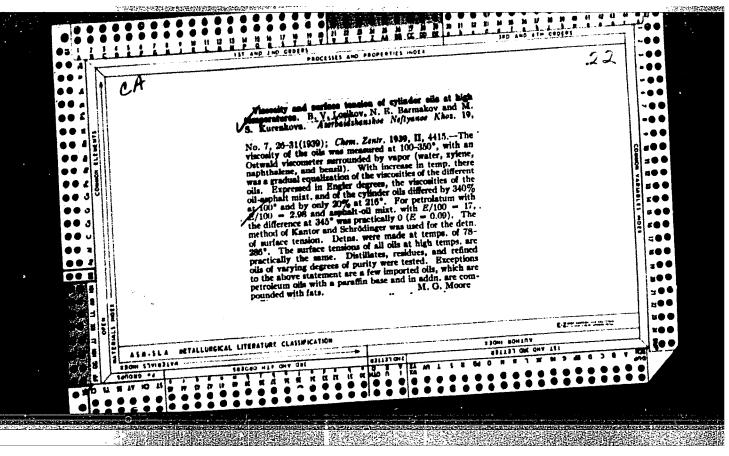
Card 1/2

UDC: 621.313.29-233.2-752.7

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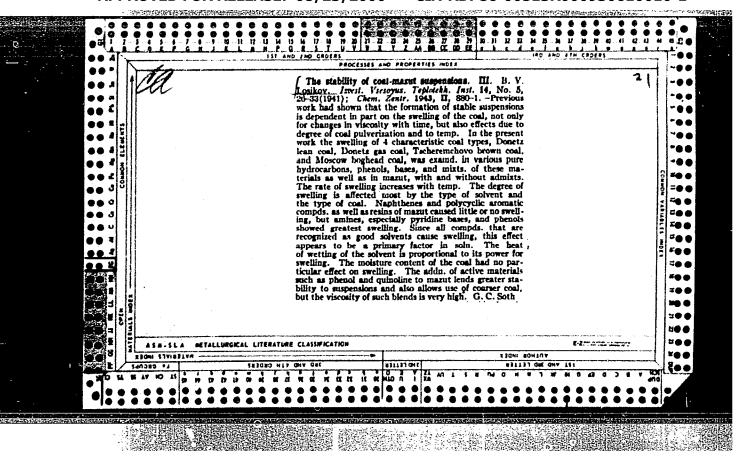
LOSIKOV, B. V.

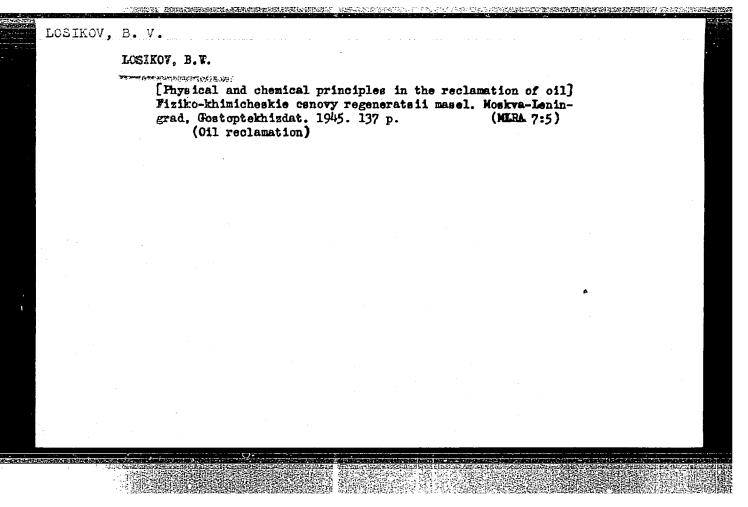
Eksploatatsiia turbinnykh masel. Moskva, Gostoptekhizdat, 1941. 146 p.

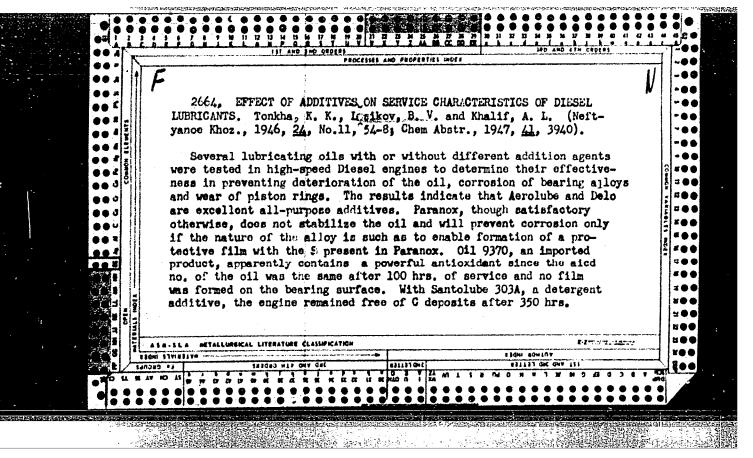
Use of turbine lubricants.

DLC: TJ789.L6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.







LOSIKOV, B. V.

Author: Loskov. B. V.

Title: Physico-chemical principles of oil recovery.

Fiziko-khimicheskie osnovy regeneratsii masel.

161 pp.

City: Moscow

Date: 1946

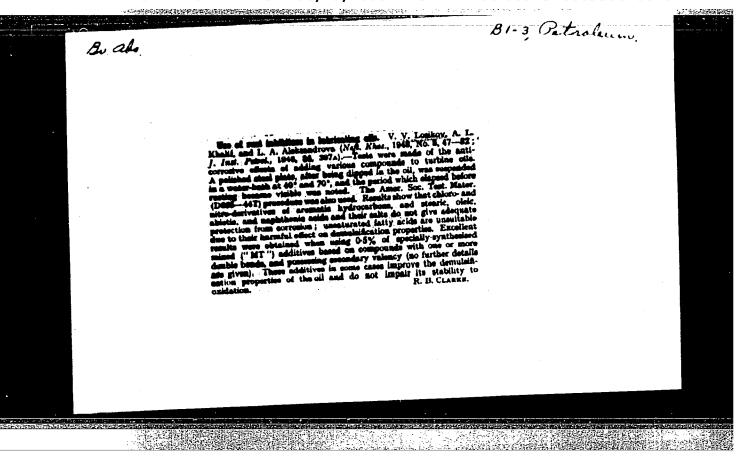
Subject: Oil reclaimation

Available: Library of Congress, Call No: TP687.167

1948

Source: Idb. of Cong. Auth. Cat., 1950

A good manual on properties, classification and applications, in addition to the technology of and processes used in oil recovery.



LOSIKOV, B. V. and LUKASHEVICH, I. P.

Petroleum Goods. 1950. (Neftyanoye tovarovedeniye).

CIA-RDP86-00513R000930610010-1 "APPROVED FOR RELEASE: 08/23/2000

Petroleum products and refining; textbook. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1950. 419p. 51-22358 LOSIKOV, B.V. tp690.L67 1950

CIA-RDP86-00513R000930610010-1"

APPROVED FOR RELEASE: 08/23/2000

Khimiya Mineral'nykh Masel (The Chemistry of Mineral Oils, by) N. I.

Chernozhukov, S. E. Kreyn (i) B. V. Losikov. Moskva, Gostoptekhizdat, 1951.

307 p. Illus., Diagrs., Tables.

Bibliographical Footnotes.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

LOSTKOV, B.V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, Ro. 22-40, 20 Feb - 3 Apr 1954)

Name

Title of Work

Mcminated by

Chernozhukov, N.I. Kreyn, S.E. Losikov, B.B. "Chemistry of Mineral Olls" (student nanula)

Moscow Petroleum Institute imeni Acad I.M. Gubkin

80: W-30604, 7 July 1954

CIA-RDP86-00513R000930610010-1 "APPROVED FOR RELEASE: 08/23/2000

LOSIKOV, B.V.

AID P - 288

Subject

USSR/Engineering

Card

1/2

Author

: Losikov, B. V., Makasheva, O. P. and Aleksandrova, L. A.

Title

Mechanism of action of anti-corrision additives to

mineral oils

Periodical

: Neft. Khoz., v. 32, #4, 65-72, Ap 1954

Abstract

The authors present the results of their experiments on the effect of temperature and additives on the formation of protective film over the surface of copper-lead specimens. Additives of Soviet types H3 and H4 were used in the aviation lubricating oil of types PC-13, AzNII-TsIATIM-1 (Azerbaydzhan Scientific Research Institute -Central Scientific Research Institute of Aviation Fuels and Oils - 1). Copper-lead specimens of small plates or of powdered forms were subjected to tests. The mechanism of the formation of protective film is described and presented in 6 charts and 4 tables based on

test results.

I nauslaturi D 217022, 12 Apr 51-

CIA-RDP86-00513R000930610010-1" APPROVED FOR RELEASE: 08/23/2000

AID P - 340

Sub.ject

: USSR/Chemistry

Card

: 1/2

Author

Losikov, B. V.

Title

Mechanism of action of anti-corrosive additives to

mineral oils

Periodical

: Neft. Khoz., v. 32, #5, 61-67, My 1954

Abstract

: The action of anti-corrosive additives is studied by the same method as described in the previous article (Neft. Khoz., #4, 65, 1954), in which metallic plates were substituted for by metallic powder. The rate of protective film formation is studied with the rate of loss of weight of different powders in oil of different temperatures. The mechanism of the film formation is explained partially by the chemical bound with the basic metal and partially by forces or physical absorption. In the second part of the article the author discusses the anti-oxidation action of anti-corrosive

Translation 2178245 - May 54

AID P - 340

Neft. Khoz., v. 32, #5, 61-67, My 1954. (additional card)

: 2/2 Card

additives. 8 charts, one table and one Russian reference (1946).

Institution: None

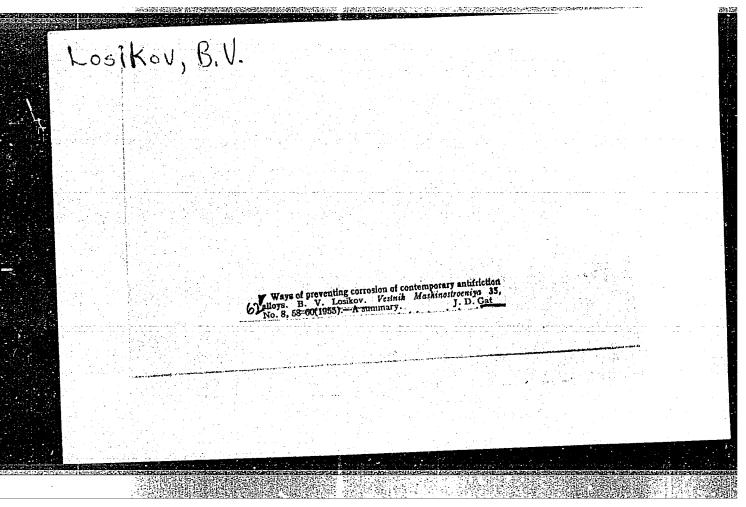
Submitted : No date

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930610010-1"

LOSIKOV, B.V.; PUCHKOV, N.G.; ENGLIN, B.A.; LIVOVA, L.A., vedushchiy LOSIKOV, B.V.; PUCHKOV, A.V., tekhnicheskiy redaktor

[Principles of petroleum products utilization] Osnovy primeneniia nefteproduktov. Hoskva, Gos. nauchnostekhn. izd-vo neftianoi i gornotoplivnoi lit-ry, 1955. 461 p.

(Petroleum products)



205/KOV, B.V.

USSR/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1196

Author: Losikov, B. V., Kaverina, N. I., and Fedyantseva, A. A.

Institution: None

Title: A Chromatographic Method for Determining the Fractional Composition

of High Polymers

Original

Periodical: Khimiya i tekhnol. topliva, 1956, No 3, 51-53

Abstract: The results of the chromatographic resolution of polyisobutylene (I)

fractions are recorded. The adsorbent used consisted of activated BAU charcoal and MSK silica gel. Two types of I with average molecular weights of ~18,000 and ~27,000 were investigated. Before charging into the column I was dissolved in iso-octane; ratios of 1:10 or 1:12 were used. For the rough resolution of I columns of small dimensions were used (1 = 1,300 mm and d = 17 mm); finer fractionation was

achieved with larger columns (1 = 1,800 mm and d = 26 mm); iso-octane

and benzene (in the final stage) were used in development. The data

Card 1/2

AID P - 5077

: USSR/Engineering Subject

Pub. 128 - 6/26 Card 1/2

Losikov, B. V., Prof., Dr. Tech. Sci., and L. A. Aleksandrova, Kand. Tech. Sci. Authors

Corrosion inhibitors in lubricants for intermittently Title

running machines.

: Vest. mash., 5, 12-15, My 1956 Periodical

: Corrosion protection of machine parts is very important, Abstract

especially when the machine is not running. Various admixtures, called corrosion inhibitors, are added to lubricants for improving their protective properties. The authors analyzed under laboratory conditions the effectiveness of different corrosion inhibitors. The method of the "moisture chamber" (GOST 4699-49) was used. The tests are described and other testing methods

are discussed. The results are compared with results

AID P - 5077

Vest. mash., 5, 12-15, My 1956

Pub. 128 - 6/26 card 2/2

obtained by other scientists. 3 tables, 3 diagrams.

10 references.

Institution : None

Submitted : No date

ZUIDEMA, G.G., [Zuidema, H.H.]; MYSHKIN, Ye.A., kand. tekhn, nauk, [translator],;

LOSIKOY, B.V., prof., doktor tekhn. nauk, red.; LOZBYAKOYA,

Ye. S., ved. red.; ENDERKO, V.S., tekhu. red.

[Performance of lubricating oils] Eksplustatsionnye svoistve

smazochnykh mesel. Moskva, Gos. nauchno-tekhn. izd-vo naft. i
smazochnykh mesel. Moskva, Translated from the English].

gorno-toplivnoi lit-ry, 1957. 170 p. [Translated from the English]

(Lobrication and lubricants)

(Lobrication and lubricants)

LOSINOU, B.V.

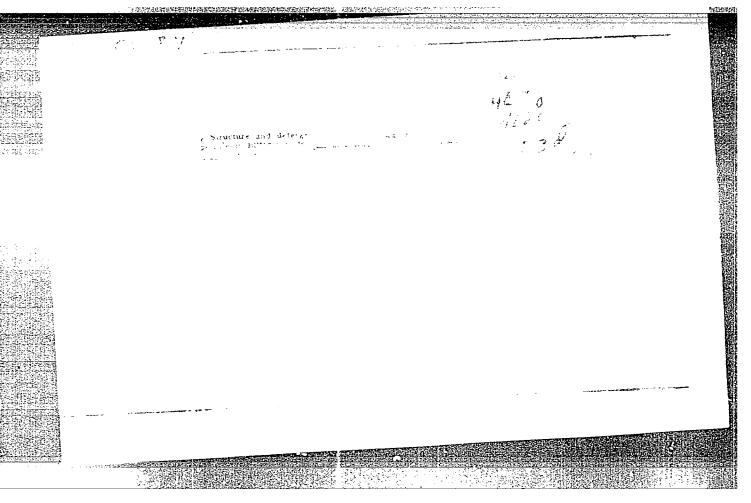
LOSIKOV, B. V., prof, red; KREYN, S. E. prof. red; FUKS, G.I., kand.khim.nauk; red.; LOSIKOV, B. V., prof, red; KREYN, S. E. prof. red; FUKS, G.I., kand.khim.nauk; red.; LOSEYAKOVA, Ye.S., vedushchiy redaktor; MUKHINA, E.A., tekhn.red.

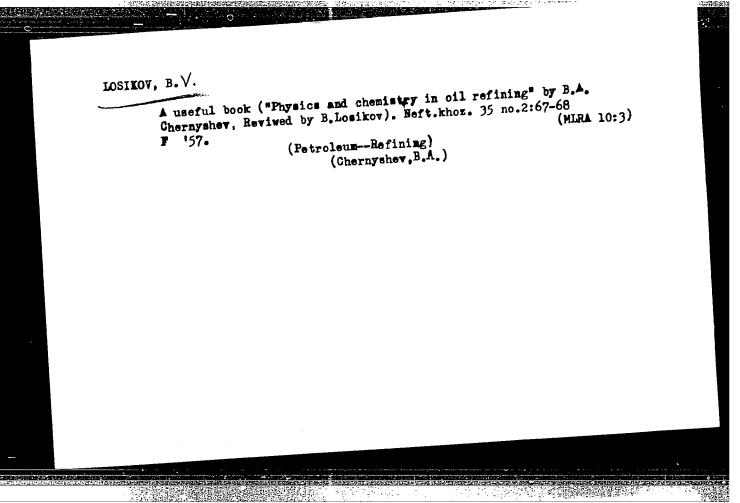
[Improvement in the quality and the use of lubricants; a collection of papers] Povyshenie kachestva i primenenie smazochnykh materialov; sbornik dokladov. Moskva, Gos.nauchno-tekhn.izd-vo neft.i gornotoplivnoi lit-ry, 1957, 364 p.

1. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.B.Dzerzhinskogo.

(Lubrication and lubricants)

CIA-RDP86-00513R000930610010-1" APPROVED FOR RELEASE: 08/23/2000





LOSIKOV, B. V., FEDYANTSEVA, A. A. and KAVERINA, N. I.

"Determining the Fractional Composition of High-Polymeric Lubricating Oil Additives"

Composition and Properties of the High Molecular Weight Fraction of Petroleum; Collection of Papers, Moscow, Fzd-vo AN SSSR, 1951, 170pp (Inta nefti) 2nd Collection of papers publ. by AU Conference, Jan 56, Moscow.

The authors show that chromatographic adsorpton can be used as a method for separating polyisobutylene and vinypol, with active carbon or silica gel as adsorbent. The method can be of considerable interest in estimating the quality of high-polymer viscous additives in oils. It can also be used in obtaining polymer fractions with equal molecular weights. There are 5 tables, 1 figure, and 3 references of which 2 are German and 1 English.

CIA-RDP86-00513R000930610010-1 "APPROVED FOR RELEASE: 08/23/2000

LosiKoV. B.V.

65-58-4-6/12

AUTHOR:

Losikov, B. V.

TITLE:

On Fuels for Gas Turbine Power Stations (O toplive dlya

gazoturbinnykh energeticheskikh ustanovok)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Lasel, 1958, Ar 4,

pp 32 - 39 (USSR)

and come of the consistence of the construction of the constructio

ABSTRACT:

Gas turbines are used increasingly in Power Stations as well as in industry and transport. The actual efficiency of diesel plants is about 0.30 - 0.40, but in boiler turbine plants it is 0.20 - 0.22; for gas turbine plants when the air pressure in front of the combustion chamber is 10 kg/cm², for temperatures of the gases up to 800°C. The advantages of gas turbines (their small weight and the possibility of using gaseous, liquid or solid fuels) are discussed. This is a review which covers previous work on the construction of combustion chambers, and selection of the conditions regulating the process is mentioned (Refs. 1 and 2), as well as problems of the prevention of corrosion and of the formation of deposits. In one of the earlier publithe formation of deposits. In one of the earlier publications it was shown that all alloys corrode when a mixture of the compounds used (V₂O₅, Na₂SO₄) is in contact ture of the alloys at temperatures exceeding 650°C (Ref. 5) with the alloys at temperatures exceeding 650°C (Ref. 5) The mechanism of corrosion of vanadium i.e. the formation of V205, is explained. Fig.1:shows the effect of the ratio

Card 1/3

On Fuels for Gas Turbine Power Stations

65-58-4-6/12

vanadium: sodium on the corrosion of alloys (E. B. Evans et al). The residual petroleum fuels from low culphur content petroleum containing less than 1 x 10-3% vanadium can be used in all gas turbines which are adapted for the combustion of heavy residual fuels. from sulphur - petroleum containing more than 1 x 10-3% vanadium can be used in gas turbines where the temperature of the gas before entering the turbine does not exceed 650°C. The use of fuels with a high percentage of vanadium, which is characteristic for lubricants from sulphur-containing petroleum, causes serious complications i.e. the formation of deposits and corrosion of the plant. Research, as well as experimental work, should be carried out in this field. The use of distillate fuels, such as diesel fuels (whatever its sulphur content) should not cause any difficulties. Distilled fuels obtained by steam distillation should be given preference to products obtained by thermal and catalytic cracking, or by coking. Fig. 2 shows the effect of sulphur on corrosion caused by fuels containing vanadium and sodium; Fig. 3. shows the effect of

Card 2/3

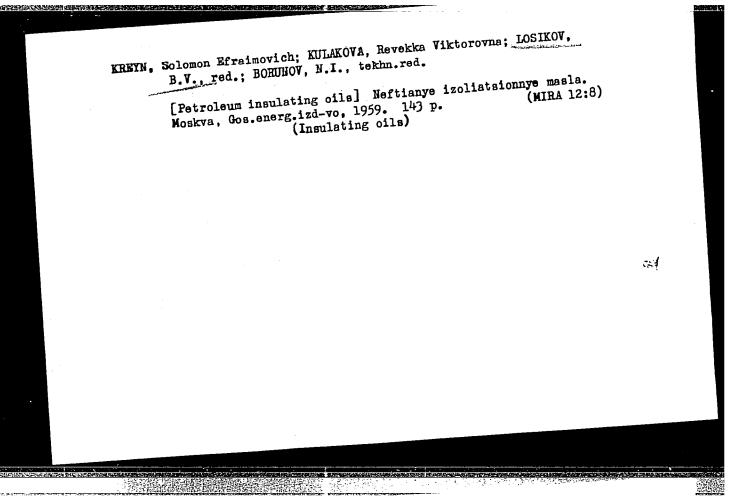
On Fuels for Gas Turbine Power. Stations

temperature on the corrosion of alloys. There are 2 Tables, 3 Figures, 13 References: - 6 English and 7 Russian.

1. Gas-turbine fuels-Performance 2. Gas turbine fuels-Impurities 3. Gas turbines-Applications 4. Gas turbine fuels-Corrosive effects

Card 3/3

Card 3/5



30222 s/081/61/000/019/067/085 B117/B110

Losikov, B. V., Sobolev, Ye. P., 11.0130 Rubinshteyn, I. A., AUTHORS:

Zaychik, M. G.

Influence of organic sulfur compounds on the low-temperature properties and oxidizability of kerosene - gas-oil fractions TITLE:

Referativnyy zhurnal. Khimiya, no. 19, 1961, 423, abstract 19M180 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikh-PERIODICAL:

sya v neftyakh i nefteproduktakh". M., AN SSSR, 1959,

304 - 315)

TEXT: With the aid of gas oils from Romashki and Tuymazy petroleums it has been shown that sulfur compounds (SC) prevent the autocatalytic development of the oxidation process. The antoxidizing effect of SC consists in their reaction and the reaction of their oxidation products with peroxide radicals or hydrogen peroxides of hydrocarbons. Simultaneously, SC accelerate the oxidative polymerization and condensation leading to the accumulation of tarry substances. The least permissible concentration of SC in gas-oil from this standpoint depends on the chemical structure of

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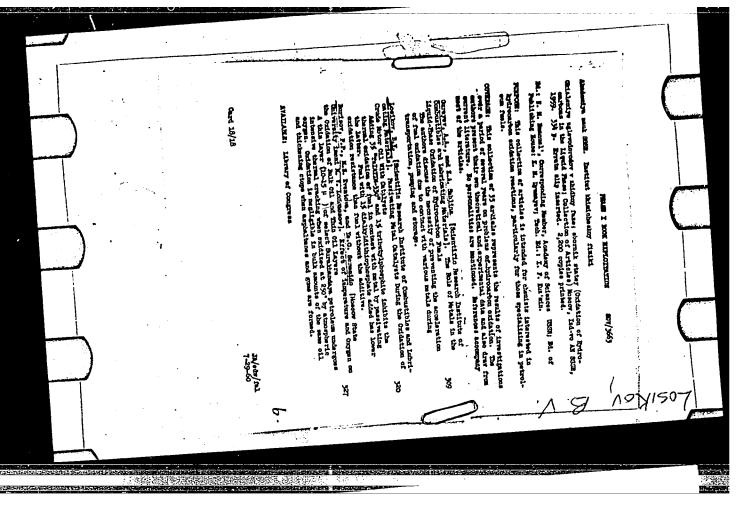
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Influence of organic sulfur...

SC and on the composition of oxidizable gas-oil. At lew concentration, SC prevent the formation of acid, hydroxyl-containing, saponifiable substances formed by oxidative decomposition of peroxides. The optimum total S concentration depends on the chemical structure of SC and, apparently, on the chemical composition of gas-oil. The tarry substances contained in Romashki gas-oil are no antoxidants and have no essential effect on the character and kinetics of its oxidation. A profound extraction of SC from kerosene - gas-oil fractions with a small (optimum) quantity of SC is required. The latter is determined in advance for the relevant petroleum product subjected to hydrogenetive refining. The presence of SC in paraffin petroleum products promotes the reduction of the temperature of structure formation. [Abstracter's note: Complete translation.]

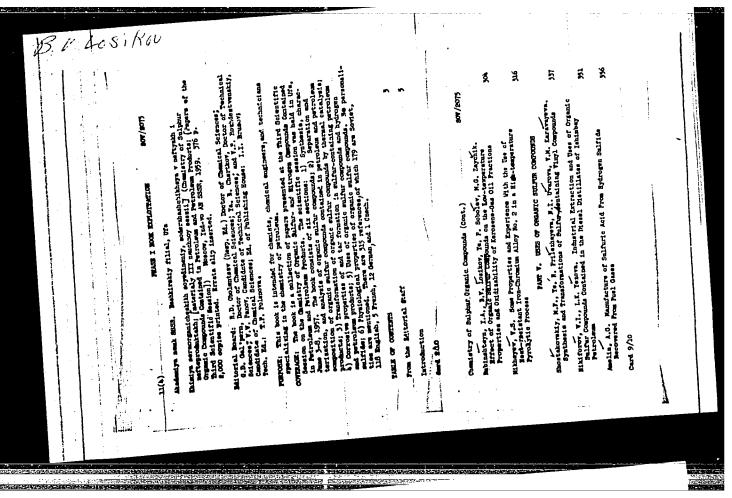
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LOSIKOV, B.V.

PHASE I BOOK EXPLOITATION

SOV/1948

Chernozhukov, Nikolay Ivanovich, Solomon Efraimovich Kreyn, and

Khimiya mineral nykh masel (Chemistry of Mineral Lubricating Oils) 2d ed., rev. Moscow, Gostoptekhizdat, 1959. 414 p. 4,000 copies

Exec. Ed.: L.A. L'vova; Tech. Ed.: A.S. Polosina,

PURPOSE: This book is intended for engineers and scientific personnel engaged in lubricating oil chemistry and technology.

COVERAGE: This is an enlarged and revised edition of the original work of the same title published in 1951. It clarifies the basic problems relating to the nature of lubricating oils, the changes in lubricating oils under operating conditions, and the technology involved under these conditions. It also contains much experimental material on the chemical composition, inner structure, solubility, viscosity, lubricating properties, resistance to

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Chemistry of Mineral Lubricating Oils

oxidation, scrubbing, dispersing, and corrosive properties of lubricating oils. No personalities are mentioned. Each chapter is accompanied by references.

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